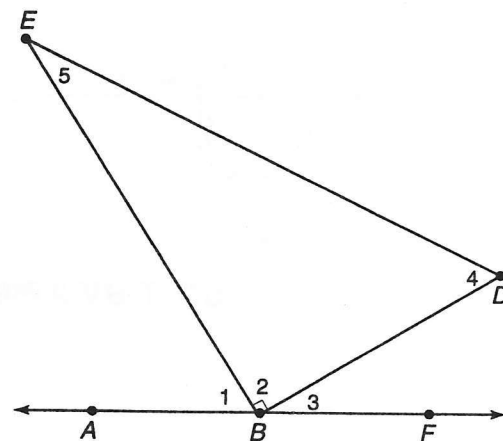


Practice

Exploring Angles

Refer to the figure at the right to answer each question.

1. Give another name for $\angle 1$.
2. Name the vertex of $\angle EBD$.
3. Does $\angle ABE$ appear to be acute, obtuse, right, or straight?
4. If $m\angle DBF = 35$, what is the measure of $\angle EBF$?
5. Name a pair of opposite rays.
6. Name a point in the interior of $\angle EBF$.
7. Name three angles with \overline{BE} as a side?



In the figure, \overrightarrow{XP} and \overrightarrow{XT} are opposite rays and \overrightarrow{XQ} bisects $\angle PXS$. For each situation, find the value of x and the measure of the indicated angle.

8. $m\angle SXT = 4x + 1$, $m\angle QXS = 2x - 2$,
 $m\angle QXT = 125$; $m\angle QXS$
9. $m\angle PXR = 3x$, $m\angle RXT = 5x + 20$, $m\angle RXT$
10. $m\angle RXQ = x + 15$, $m\angle RXS = 5x - 7$,
 $m\angle QXS = 3x + 5$; $m\angle RXS$
11. $m\angle RXQ = 2x + 7$, $m\angle RXP = 3x - 11$,
 $m\angle PXS = x + 37$; $m\angle QXS$
12. $m\angle TXS = x + 3$, $m\angle SXR = 2x + 9$, $m\angle RXP = 4x - 7$;
 $m\angle PXS$

